

Title (en)
RECONFIGURABLE SERIES-SHUNT LDO

Title (de)
REKONFIGURIERBARER SERIEN-NEBENSCHLUSS-LDO

Title (fr)
LDO SHUNT EN SÉRIE RECONFIGURABLE

Publication
EP 3848772 A3 20210825 (EN)

Application
EP 20203119 A 20201021

Priority

- US 202062958770 P 20200109
- US 202017065445 A 20201007

Abstract (en)

A low-dropout regulator (LDO) capable of providing high power-supply rejection ratio (PSRR) and good reverse isolation. The LDO may include a core circuitry and a reverse isolation circuitry. The core circuitry may include a PSRR circuitry coupled to an output node and configured to provide high PSRR at the output node. The reverse isolation circuitry may be configured to provide good reverse isolation at the output node by, for example, providing current in response to ripples at the output node. The reverse isolation circuitry may be configured with bandwidth higher than that of the core circuitry such that it can provide fast transient response. The reverse isolation circuitry may be configurable and/or reconfigurable for a desirable reverse isolation performance. The reverse isolation circuitry may be configurable and/or reconfigurable to trade off between power consumed by the reverse isolation circuitry and a leakage current flowing through the core circuitry.

IPC 8 full level
G05F 1/565 (2006.01); **G05F 1/56** (2006.01); **G05F 1/575** (2006.01); **G05F 1/614** (2006.01); **G05F 1/618** (2006.01)

CPC (source: CN EP US)
G05F 1/561 (2013.01 - CN); **G05F 1/562** (2013.01 - EP); **G05F 1/565** (2013.01 - EP); **G05F 1/575** (2013.01 - EP US); **G05F 1/614** (2013.01 - EP);
G05F 1/618 (2013.01 - EP)

Citation (search report)

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- [XI] US 2011115556 A1 20110519 - MAY MICHAEL ROBERT [US]
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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)

EP 3848772 A2 20210714; EP 3848772 A3 20210825; EP 3848772 B1 20240710; CN 113110665 A 20210713; CN 113110665 B 20220426;
TW 202127784 A 20210716; TW I751826 B 20220101; US 11526186 B2 20221213; US 2021216092 A1 20210715

DOCDB simple family (application)

EP 20203119 A 20201021; CN 202011378293 A 20201130; TW 109143407 A 20201209; US 202017065445 A 20201007